Name:

at1121exam_practice: Radicals and Squares (v609)

Question 1

Simplify the radical expressions.

$\sqrt{63}$ $\sqrt{45}$ $\sqrt{18}$

Question 2

Find all solutions to the equation below:

$$\frac{(x+6)^2-4}{3} = 4$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 18x \;=\; 88$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y \;=\; 2x^2 - 24x + 68$$

Express the function in **vertex form** and identify the **location** of the vertex.